ODS-17-000046

P-3122 Annual Progress Horticulture

Job code- SBR-135/18-19 14/03/19

Estimated cost

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For other works)

(Date: .....).

Date:

Bill No.4th and Part

Division : DCF (Lakes)

Sub-Division AEE (Lakes)

Bill Received No: ..... Dated : ..... Cash Book .....

Voucher No: Dated: .....

Schedule Docket No: ..... Head of Account :

Name of the Work: Development of Green space and parks to Vin Field Layout Main Road Park Ward - 5 Jakkur (Yelahanka Zone)

Name of the Contractor & Address: Sri. Mahesh K. N.

Reference to Agreement No:

Certified that the measurements were taken by me on 14/3/2019 and recorded on pages 11043 to 11047 of measurement Book No 111 and the work is satisfactorily executed.

Contractor

14/3/19

Officer- in charge of work.

Certified that the measurement were checked by me on and found correct

The work is satisfactorily executed.

Certified that the Quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

14/3/19

Sub-Division Officer

DCF 14/3/19 A/S Verified Part Bill

Memorandum of payment

1	Total value of work done or supplies made as per the account within	TVWD	18739130/=
2	Deduct amount to be held in reserve being ..... percent Rs.	Part Paid	13826280/=
3	" Balance	Civil work 4th & Part	4912850/=
4	Deduct payments		
	a) Amount of previous payment as in the office cash book voucher No. ..... Dated ..... S D No..... Amount adjusted towards cash advance recovery of	S.D Payable Value	Cost 43865/= Cost 43865/=
	b) Payments cost store or other materials supplied Now made recovery of amount creditable of this/other work. Amount paid on this bill Cheque/ Cash.	IT 49130/= KST 49130/= Royalty 4915/= CIF 16445/= BWF 207350/= Royalty Cheque	Cost 4705500/=
5	Balance being unpaid value of work done held in reserve.		
6	Deduct cash advance made on the office Cash Book Voucher No. Dated ..... less adjustments.		
7	Net amount due to or from Contractor. Unadjusted items		
8	Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied.		

Check measured by Deputy Conservator of Forests (Lakes) on In MB No. In page No.

Contractor

Received Rs. .....

(in words) .....

By Cash & by adjustment of Payment as per memorandum

Witness :

1

2

Dated

Stamp

Contractor

Paid by me by Cheque No. ..... Dated:.....

Cash Rs. ..... Dated:.....

Audited and admitted for Rs. 4912850/=

Passed for Rs. 4705500/= Four crore seven lakh five thousand five hundred only By Cheque

For Rs. 207350/= By Adjustment

Deputy Conservator of Forests (Lakes) BBMP

Initials of Officer making Payment

Deputy Conservator of Forests (Lakes)

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work : Development of Green space and parks to Vin Field Layout Main Road Park W... 5 Jakkur (Yelahanka Zone)

Item code	Item Name	Un	Approved Qty	Previous measurements		Present measurements			Up to date measurements	
				Qty	Amount	Qty	Rate	Amount	Qty	Amount
1	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials within a lead of 100 metres from road boundary, labour charges complete as per specifications. as directed by the engineer incharge of the work.	sq	6997.22	6606.00	44062.00		6.67		6606.00	44062.00
2	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. In depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods specifications. as directed by the engineer incharge of the work.for compound ,gate and gazebo(3.5MX3.5Mand 6.5mx6.5m)& rainwater harvesting structure	cu	479.18	327.08	68770.17	8.50	210.26	1787.18	335.58	70557.35
3	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement@180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. As directed by the engineer incharge of the work..for compound,gate and gazebo(3.5MX3.5Mand 6.5mx6.5m)& rainwater harvesting structure,	cu	80.19	62.39	337802.13	10.54	5414.39	57054.15	72.93	394856.28
4	Providing and constructing granite/ trap /basalt size stone masonry in foundation with Cement mortar 1:6, stone hammer dressed in courses not less than 20 cms high, bond stones at two m. Apart in each course including cost of materials, labour, curing complete as per specifications. As directed by the engineer incharge of the work	cu	139.56	134.872	628221.89		4657.91		134.87	628221.89
5	Providing and constructing granite/trap/ basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.As directed by the engineer incharge of the work,for compound&gate and gazebo(3.5MX3.5M)	cu	68.14	68.14	379397.55		5567.91		68.14	379397.55
6	Providing flus pointing to coursed stone masonry with cement mortar 1:3 , 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications,. As directed by the engineer incharge of the work	sq	206.76	205.11	22132.80		107.91		205.11	22132.80
7	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320 kgs, with 20mm and down size graded granite metalcoarse aggregates @ 0.878cum and fine aggregates @ 0.459cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. As directed by the engineer incharge of the work,.for open stage and gazebo 3.5mx3.5mand 6.5mx6.5m&rain water harvesting structure	cu	29.04	29.04	194192.14		6687.06		29.04	194192.14
8	Providing T.M.T Steel reinforcement for RCC work including styraightening ,cutting ,bending ,hooking, placing in position ,lappingand/or welding where ever required ,tying with binding wire and anchoring to the adjoining members where ever nessassary complete as per design (laps and westage shall not be measured and paid) cost of mateial,labour HOM of machinary complete as per specifications ,As directed by the engineer incharge of the work,for gates &rain water harvesting structure	Ton	1.86	0.32	19953.26	0.02	62353.94	1247.08	0.34	21200.34
9	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials. labour, curing complete as per specifications. As directed by the engineer incharge of the work	sqn	14.40	14.40	2899.54		201.36		14.40	2899.54

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Item code	Item Name	Un	Approved Qty	Previous measurements		Present measurements			Up to date measurements	
				Qty	Amount	Qty	Rate	Amount	Qty	Amount
11	Providing & fixing MS grill over existing compound wall as per using 16 mm x 16 mm MS square rod at 150 mm c/c spacing and 6 mm x 40 mm MS flats at horizontal and 6 mm x 12 mm MS flat for ornamental design & providing sharp edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust & painted with anticorrosive paint (shop paint) etc, complete. The work includes cost of all materials, labour charges for all items of work, hire charges for building, cutting & grinding, equipment & electricity charges etc. complete as per specifications.As directed by the engineer incharge of the work	sq	220.00	207.50	1205895.23		5811.54		207.50	1205895.23
12	Providing and fixing MS gate as per chief architect drawing using 50mmx50mm 14 gauge MS hallow pipe frame work bent to ornamental shape as shown in the drawing and 35mmx6mm and 16mm square rods for verticles alternatively spaced @4cm c/c in two halves and 40mmx 6mm MS flats for horizontal member and at the top cast iron spikes are provided at alternate verticle members as shown in the drawings. all the steel surface should be thouroughly cleaned free of rust and painted with anticorrosive paint (shop paint) etc. the work includes cost of all materials , labour charges for all items of work, higher charges for welding, cutting and grinding equipments. and electricity charges complete as per specifications. As directed by the engineer incharge of the work	sqr	19.80	8.92	29115.00		3263.99		8.92	29115.00
13	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. As directed by the engineer incharge of the work,for gates, MS grill and gazebo(3.5MX3.5M&6.5mx6.5m)	sqn	336.55	336.55	30700.95		91.22		336.55	30700.95
16	Providing and filling in foundation with granite /trap broken metal 100mm and down size , with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift .complete as per specifications, and as directed by the department officers.	cun	21.78	19.52	45904.03		2351.76		19.52	45904.03
17	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli grey granite in cement mortar CM 1:4 proportion, cut to required shape pattern with paper joints finished with cement mortar using white cement and colour pigments to match the colour of slb making through jointing with sealent grooves in joints including cost of all materials , mortar, labour, curing etc,. complete as per specifications minimum width of 1200 mm as per specifications ,As directed by the engineer incharge of the work	sqn	87.12	89.12	192480.00		2209.37		89.12	192480.00
18	Providing and fixing of 150x150x10mm thick M.S Box section columns Fabricating, supplyinf and erecting MS Angular trusses for all spans as per apprroved design and drawings. The entire trusses is anchored suitably by using 4 Nos of anchor bolts at each support, with base plate shoe plate.the work includes straightening ,placing in position of MS Angle and welding whereever necessary and applying one coat of red oxide primer coat to all the members including cost of materials, labour charges and hire charges of machinery for cutting, welding, grinding and erection equipments etc,complete as per specifications,As directed by the engineer incharge of the work	kg	9889.39	5693.61	741074.67	433.45	130.16	56416.89	6127.06	797491.56
19	Providing and fixing of Mangalore tiles roofing using first class tiles with necessary special tiles for ridges and hips, teak wood reepers of size 50x25mm and pointed with cement mortar 1:4 over the existing rafters including cost of materials , labour,curing complete as per specifications,As directed by the engineer incharge of the work	sqm	110.43	110.40	147502.84	0.03	1336.08	40.08	110.43	147542.92
20	Providing, laying, spreading and compacting crushed stone aggregates of granite/ trap/ basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to the site , laying in uniform layers with paver in sub- base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.As directed by the engineer incharge of the work	cum	275.00	248.66	461406.06	26.34	1855.60	48876.50	275.00	510282.56
21	Providing & laying heavy duty cobble stones 60 mm thick interlocked pavers, using cement & coarse sand for manufacture of blocks of approved size, shape & colour with a minimum compressive strength of 281 Kg/sqm over 50 mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints in to its final level, including cost of materials, labour and HOM of machineries complete as per specifications .As directed by the engineer incharge of the work	sqm	1280.00	1243.28	1261397.87	36.72	1014.57	37255.11	1280.00	1298652.98

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Item code	Item Name	U	Approved Qty	Previous measurements		Present measurements			Up to date measurements	
				Qty	Amount	Qty	Rate	Amount	Qty	Amount
22	Providing and fixing pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete size 450 x 200 x 400 mm	N	2811.00	2520.00	1020446.48		404.94		2520.00	1020446.48
23	supplying & fixing of Rain bow climber::All round and rectangular pipes are GI or CR,ISI make.Gauge 14 gauge,2coating are red oxide and final paints of industrial paint, Nut bolt GI, bearing heavy ,(branded).FRP thickness-4-5mm ,swing assembly6mm chain with rubber coating,as directed by the engineer incharge of the work.	Ea	3.00			3.00	12808.10	38424.29	3.00	38424.29
24	supplying & fixing of sea saw double:.All round and rectangular pipes are GI or CR,ISI make.Gauge 14 gauge,2coating are red oxide and final paints of industrial paint, Nut bolt GI, bearing heavy ,(branded).FRP thickness-4-5mm ,swing assembly6mm chain with rubber coating,as per sketch and engineer incharge of the work	Ea	8.00			4.00	14820.51	59282.06	4.00	59282.06
25	supplying & fixing of Arch swing two seater:All round and rectangular pipes are GI or CR,ISI make.Gauge 14 gauge,2coating are red oxide and final paints of industrial paint, Nut bolt GI, bearing heavy ,(branded).FRP thickness-4-5mm ,swing assembly6mm chain with rubber coating,as per sketch and engineer incharge of the work	Eac	6.00			4.00	33737.23	134948.91	4.00	134948.91
26	supplying and fixing FRP Rabbit dust bins As directed by the engineer incharge of the work &As per drawings.	Eac	26.00			26.00	5572.85	144893.97	26.00	144893.97
27	supplying & fixing of Two way slide.All round and rectangular pipes are GI or CR,ISI make.Gauge 14 gauge,2coating are red oxide and final paints of industrial paint, Nut bolt GI, bearing heavy ,(branded).FRP thickness-4-5mm ,swing assembly6mm chain with rubber coating, per drawing and specifications and as directed by the engineer incharge of the work.	Eac	7.00			4.00	55471.32	221885.29	4.00	221885.29
28	supplying & fixing of Standing mary go round:All round and rectangular pipes are GI or CR,ISI make.Gauge 14 gauge,2coating are red oxide and final paints of industrial paint, Nut bolt GI, bearing heavy ,(branded).FRP thickness-4-5mm ,swing assembly6mm chain with rubber coating,as per sketch and engineer incharge of the work	Eac	4.00			4.00	25687.56	102750.25	4.00	102750.25
30	supplying and fixing FRP CI-STRIP Benches As directed by the engineer incharge of the work &As per drawings.	Eac	35.00			35.00	14860.92	520132.20	35.00	520132.20
31	Providing and filling sand in Kids play area and open gym area with all leads and lift complete as per specification.As directed by the engineer incharge of the work.	cum	219.00			77.02	2375.12	182926.07	77.02	182926.07
32	supply and fixing of HD Health Walker Metal::All tubular steel of 2.5mm thickness are galvanised and zinc dipped joints are robotic welded. all welded joints are scalloped as necessary and welded to an approvedMIG process .all welds are dressed off removing all sharp edges burts.zinc primer paints applied at all the welding points prior to finishing . all metal parts are powdered coated using AKZO Nobel Great wall powder to the thickness of 80-120microns. all metal parts are tested in our salt spray machine that uses a 5%Nacl solution in accordance to ISO7227 to sped up corrosion for 3000hrs. rubber hikgh quality grip rubber is used for the handles bearings .maintenance -free ball bearings .scope of delivery 1 completely pressed assembled equipment modules . maintenance: maintain according to EN 16630 and maintenance guide .saftey: all products must be tested and certified to meet EN16630 saftey standards with GS test Mark.The EN16630 certificates must be issued by areputed notified international certifying agencey such as IPEMA,TUV,CPSC,or SGS only .the GS Mark EN16630 certificates must be in the name of tendering party and not any 3rd party .all products must clearly display the GS mark as has been issued in the EN16630 saftey certificates.all product must carry a GS mark on it. size(LxWxH) 2015x615x1360mm , weight:93kg , saftey area:5015x3015mm capacity 2persons.As per sketch and Engineer incharge of the work.	Each	2.00			2.00	131817.20	263634.40	2.00	263634.40

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Item code	Item Name		Approved Qty	Previous measurements		Present measurements			Up to date measurements	
				Qty	Amount	Qty	Rate	Amount	Qty	Amount
33	supply and fixing of HD Squat pushing Metal::All tubular steel of 2.5mm thickness are galvanised and zinc dipped joints are robotic welded. all welded joints are scalloped as necessary and welded to an approvedMIG process .all welds are dressed off removing all sharp edges burts.zinc primer paints applied at all the welding points prior to finishing . all metal parts are powdered coated using AKZO Nobel Great wall powder to the thickness of 80-120microns. all metal parts are tested in our salt spray machine that uses a 5%Nacl solution in accordance to ISO7227 to sped up corrosion for 3000hrs. rubber hikgh quality grip rubber is used for the handles bearings .maintenance -free ball bearings .scope of delivery 1 completely pressed assembled equipment modules . maintenance: maintain according to EN 16630 and maintenance guide .saftey: all products must be tested and certified to meet EN16630 saftey standards with GS test Mark.The EN16630 certificates must be issued by areputed notified international certifying agencey such as IPEMA,TUV,CPSC,or SGS only . the GS Mark EN16630 certificates must be in the name of tendering party and not any 3rd party .all products must clearly display the GS mark as has been issued in the EN16630 saftey certificates.all product must carry a GS mark on it. size(LxWxH) 2270x635x1640mm , weight:60.2kg , saftey area:5300x3685mm capacity 2persons. as per the sketch and as per the Engineer incharge of the work.	Ea	2.00			2.00	185551.60	371103.20	2.00	371103.20
34	Supply & Fixing of Double Ski Walker Metal: All tubular steel of 2.5MM thickness are glavanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an apprvoed MIG Process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer paint is applied at all the welding points prior to dinishing. All metal parts are powder coated using AKZO nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray macjine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 Hrs. Rubber: High quality grip rubber is used for the hadles. Bearings: Maintenance free ball bearings. Scope of Delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested ans certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified internaltional certifying agency such as IPEMA, TUV, CPSC or SGS only. The GS Mark EN16630 Cetificates must be in the name of tendering party and not any 3rd Party. All products must clearly deplay the GS Mark as has been issued in the EN 16630 safety certificates. Size_LxWxH: 1065 x 615 x 1364 mm. Weight: 51 KG Safety Area: 4090 x 3555 mm, Capacity 1 Person.As per sketch and as per Engineer incharge of the work.	Eac	2.00			2.00	205702.00	411404.00	2.00	411404.00
35	Supply and fixing of HD Situp Station Metal:All tubular steel of 2.5mm thickness are galvanised and zinc dipped joints are robotic welded. all welded joints are scalloped as necessary and welded to an approvedMIG process .all welds are dressed off removing all sharp edges burts.zinc primer paints applied at all the welding points prior to finishing . all metal parts are powdered coated using AKZO Nobel Great wall powder to the thickness of 80-120microns. all metal parts are tested in our salt spray machine that uses a 5%Nacl solution in accordance to ISO7227 to sped up corrosion for 3000hrs. rubber hikgh quality grip rubber is used for the handles bearings .maintenance -free ball bearings .scope of delivery 1 completely pressed assembled equipment modules . maintenance: maintain according to EN 16630 and maintenance guide .saftey: all products must be tested and certified to meet EN16630 saftey standards with GS test Mark.The EN16630 certificates must be issued by areputed notified international certifying agencey such as IPEMA,TUV,CPSC,or SGS only . the GS Mark EN16630 certificates must be in the name of tendering party and not any 3rd party .all products must clearly display the GS mark as has been issued in the EN16630 saftey certificates.all product must carry a GS mark on it. size(LxWxH) 1412x1366x650mm , weight:42.6kg , saftey area:4462x4078mm capacity 2 persons.As per sketch and as directed by the Engineer incharge of the work.	Each	2.00			2.00	151967.60	303935.20	2.00	303935.20

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Item code	Item Name		Approved Qty	Previous measurements		Present measurements			Up to date measurements	
				Qty	Amount	Qty	Rate	Amount	Qty	Amount
36	supply and fixing pull down challenger metal- All tubular steel of 2.5mm thickness are galvanised and zinc dipped joints are robotic welded. all welded joints are scalloped as necessary and welded to an approvedMIG process .all welds are dressed off removing all sharp edges burts.zinc primer paints applied at all the welding points prior to finishing . all metal parts are powdered coated using AKZO Nobel Great wall powder to the thickness of 80-120microns. all metal parts are tested in our salt spray machine that uses a 5%Nacl solution in accordance to ISO7227 to sped up corrosion for 3000hrs. rubber hikgh quality grip rubber is used for the handles bearings .maintenance -free ball bearings .scope of delivery 1 completely pressed assembled equipment modules . maintenance: maintain according to EN 16630 and maintenance guide .saftey: all products must be tested and certified to meet EN16630 saftey standards with GS test Mark.The EN16630 certificates must be issued by areputed notified international certifying agencey such as IPEMA,TUV,CPSC,or SGS only . the GS Mark EN16630 certificates must be in the name of tendering party and not any 3rd party .all products must clearly display the GS mark as has been issued in the EN16630 saftey certificates.all product must carry a GS mark on it. size(LxWxH) 2570x805x20582685mm , weight:85.4kg , saftey area:6287x4858mm capacity 2 persons.As per sketch and as directed by the Engineer incharge of the work.	Ea	2.00			2.00	225852.40	451704.80	2.00	451704.80
37	supply and fixing of seated chest press metal- All tubular steel of 2.5mm thickness are galvanised and zinc dipped joints are robotic welded. all welded joints are scalloped as necessary and welded to an approvedMIG process .all welds are dressed off removing all sharp edges burts.zinc primer paints applied at all the welding points prior to finishing . all metal parts are powdered coated using AKZO Nobel Great wall powder to the thickness of 80-120microns. all metal parts are tested in our salt spray machine that uses a 5%Nacl solution in accordance to ISO7227 to sped up corrosion for 3000hrs. rubber hikgh quality grip rubber is used for the handles bearings .maintenance -free ball bearings .scope of delivery 1 completely pressed assembled equipment modules . maintenance: maintain according to EN 16630 and maintenance guide .saftey: all products must be tested and certified to meet EN16630 saftey standards with GS test Mark.The EN16630 certificates must be issued by areputed notified international certifying agencey such as IPEMA,TUV,CPSC,or SGS only . the GS Mark EN16630 certificates must be in the name of tendering party	Ea	2.00			2.00	239286.00	478572.00	2.00	478572.00
38	supplying & fixing of Tai Chi Spinners Metal:All tubular steel of 2.5mm thickness are galvanised and zinc dipped joints are robotic welded. all welded joints are scalloped as necessary and welded to an approvedMIG process .all welds are dressed off removing all sharp edges burts.zinc primer paints applied at all the welding points prior to finishing . all metal parts are powdered coated using AKZO Nobel Great wall powder to the thickness of 80-120microns. all metal parts are tested in our salt spray machine that uses a 5%Nacl solution in accordance to ISO7227 to sped up corrosion for 3000hrs. rubber hikgh quality grip rubber is used for the handles bearings .maintenance -free ball bearings .scope of delivery 1 completely pressed assembled equipment modules . maintenance: maintain according to EN 16630 and maintenance guide .saftey: all products must be tested and certified to meet EN16630 saftey standards with GS test Mark.The EN16630 certificates must be issued by areputed notified international certifying agencey such as IPEMA,TUV,CPSC,or SGS only . the GS Mark EN16630 certificates must be in the name of tendering party	Each	2.00			2.00	131817.20	263634.40	2.00	263634.40
39	Supply and fixing of HD Waist Twister Meatl:All tubular steel of 2.5mm thickness are galvanised and zinc dipped joints are robotic welded. all welded joints are scalloped as necessary and welded to an approvedMIG process .all welds are dressed off removing all sharp edges burts.zinc primer paints applied at all the welding points prior to finishing . all metal parts are powdered coated using AKZO Nobel Great wall powder to the thickness of 80-120microns. all metal parts are tested in our salt spray machine that uses a 5%Nacl solution in accordance to ISO7227 to sped up corrosion for 3000hrs. rubber hikgh quality grip rubber is used for the handles bearings .maintenance -free ball bearings .scope of delivery 1 completely pressed assembled equipment modules . maintenance: maintain according to EN 16630 and maintenance guide .saftey: all products must be tested and certified to meet EN16630 saftey standards with GS test Mark.The EN16630 certificates must be issued by areputed notified international certifying agencey such as IPEMA,TUV,CPSC,or SGS only . the GS Mark EN16630 certificates must be in the name of tendering party	Each	2.00			2.00	151967.60	303935.20	2.00	303935.20

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Item code	Item Name	Qty	Approved Qty	Previous measurements		Present measurements			Up to date measurements	
				Qty	Amount	Qty	Rate	Amount	Qty	Amount
40	supply and fixing of Bicycle Metal: All tubular steel of 2.5mm thickness are galvanised and zinc dipped joints are robotic welded. all welded joints are scalloped as necessary and welded to an approvedMIG process .all welds are dressed off removing all sharp edges burts.zinc primer paints applied at all the welding points prior to finishing . all metal parts are powdered coated using AKZO Nobel Great wall powder to the thickness of 80 120microns. all metal parts are tested in our salt spray machine that uses a 5%Nacl solution in accordance to ISO7227 to sped up corrosion for 3000hrs. rubber hikgh quality grip rubber is used for the handles bearings .maintenance -free ball bearings .scope of delivery I completely pressed assembled equipment modules . maintenance: maintain according to EN 16630 and maintenance guide .saftey: all products must be tested and certified to meet EN16630 saftey standards with GS test Mark.The EN16630 certificates must be issued by areputed notified international certifying agencey such as IPEMA,TUV,CPSC,or SGS only . the GS Mark EN16630 certificates must be in the name of tendering party and not any 3rd party .all products must clearly	E	2.00			2.00	151967.60	303935.20	2.00	303935.20
41	Providing and fixing of ready made FRP toilet for the use of public utilizing the park as per drawing and as directed by the engineer incharge of the work.	Ea	1.00			1.00	44582.76	44582.76	1.00	44582.76
42	Geophysical investigation of site for sinking bore well for supply drinking water to the habitation either through the Hand Pump. MWS or PWSS by vertical electrical sounding by adopting Venner or schlumberger's method. including reconnaissance survey of geological formation. Geophysical investigation of existing ground infecundity its quality & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top in consolidated formation of proper scatting of casing pipe ,depth of drilling required to cover full depth of auquifer propopsed to be tapped Proboabale yield and other information required including transporetation technical personal and labour etc ,as directed by the engineer incharge of the work	Ea	2.00	1.00	2167.22		2167.22		1.00	2167.22
43	Sinking of borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG and above 900 CMF and above in all strata including over burden upto 20m, fixing of casing pipes, collars and cap with necessary welding. cutting and treading including transportation of rig and supporting vehicles, screw charges and cost of consumables, etc.. complete including yield testing at the final depth with a minimum working of compressor for one hour.(excluding cost of casing pipes, collars, caps etc.,)As directed by the engineer incharge of the worka) 0.00 to 50.00 mts	Rm	100.00	50.00	16539.07		330.78		50.00	16539.07
44	Sinking of borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG and above 900 CMF and above in all strata including over burden upto 20m, fixing of casing pipes, collars and cap with necessary welding, cutting and treading including transportation of rig and supporting vehicles, screw charges and cost of consumables, etc.. complete including yield testing at the final depth with a minimum working of compressor for one hour.(excluding cost of casing pipes, collars, caps etc.,)As directed by the engineer incharge of the workb) 50.00 to 100.00 mts	Rmt	100.00	50.00	21619.70		432.39		50.00	21619.70
45	Sinking of borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG and above 900 CMF and above in all strata including over burden upto 20m, fixing of casing pipes, collars and cap with necessary welding, cutting and treading including transportation of rig and supporting vehicles, screw charges and cost of consumables, etc.. complete including yield testing at the final depth with a minimum working of compressor for one hour.(excluding cost of casing pipes, collars, caps etc.,)As directed by the engineer incharge of the workc) 100.00 to 150.00 mts	Rmt	100.00	50.00	24033.55		480.67		50.00	24033.55
46	Sinking of borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG and above 900 CMF and above in all strata including over burden upto 20m, fixing of casing pipes, collars and cap with necessary welding, cutting and treading including transportation of rig and supporting vehicles, screw charges and cost of consumables, etc.. complete including yield testing at the final depth with a minimum working of compressor for one hour.(excluding cost of casing pipes, collars, caps etc.,)As directed by the engineer incharge of the workd) 150.00 to 200.00 mts	Rmtr	100.00	50.00	25403.15		508.06		50.00	25403.15
47	Sinking of borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG and above 900 CMF and above in all strata including over burden upto 20m, fixing of casing pipes, collars and cap with necessary welding, cutting and treading including transportation of rig and supporting vehicles, screw charges and cost of consumables, etc.. complete including yield testing at the final depth with a minimum working of compressor for one hour.(excluding cost of casing pipes, collars, caps etc.,)As directed by the engineer incharge of the worke) 200.00 to 250.00 mts	Rmtr	100.00	50.00	29402.79		588.06		50.00	29402.79

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Item code	Item Name		Approved Qty	Previous measurements		Present measurements			Up to date measurements	
				Qty	Amount	Qty	Rate	Amount	Qty	Amount
48	Sinking of borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG and above 900 CMF and above in all strata including over burden upto 20m, fixing of casing pipes, collars and cap with necessary welding, cutting and treading including transportation of rig and supporting vehicles, screw charges and cost of consumables, etc.. complete including yield testing at the final depth with a minimum working of compressor for one hour.(excluding cost of casing pipes, collars, caps etc.,)As directed by the engineer incharge of the work.f) 250.00 mtrs & above		100.00	91.00	53513.08		588.06		91.00	53513.08
49	Supply of ISI mark 175 mm nominal bore.plain end steel casing pipe grade of steel fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, eletric resistence welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with socket conforming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10Kg/mtr (inclusive of all taxes and duties). Prices including collar medium duty.As directed by the enginer inchargeof the work .a) Casing pipe,As directed by the enginer inchargeof the work		60.00	12.00	16687.05		1390.59		12.00	16687.05
52	Supply and delivery of submersible pump sets suitable for borewell of 165mm dia with specified duty conditions as detailed below and satisfying performance characteristics for pump and motor specified in BIS with ISI mark with a minimum efficiency of 42% pump shall confirm to IS 8034/2002 and motor conforming to IS 9283/1995 with ISI Certification ,7.50 HP/9.3 KW Sub mersible pump set, As directed by the enginer inchargeof the work		2.00	1.00	56987.85		56987.85		1.00	56987.85
53	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper conductor cofirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of Group A 3C x 6.0 Sq.mm, As directed by the enginer inchargeof the work		560.00	122.00	24160.96		198.04		122.00	24160.96
54	Errection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair of supporting clams, borewell cap, cable clips with bolts, nuts, valve gauges etc., involved in the job. (Necessary G.I.Pipe and specials will be supplied by the board at the site free of cost), As directed by the enginer inchargeof the work		2.00	1.00	1794.65		1794.65		1.00	1794.65
61	Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm dia nominal bore with fittings (medium grade weight 1.27 Kg/mtr) B class including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications.as directed by the engineer incharge of the work.	Rmt	540.00	15.00	7327.82		488.52		15.00	7327.82
77	Earthwork excavation for pipeline trenches including depositing on bank up to a lead of 50 meters including shoring and strutting , danger lighting and using sight rails and oning rods at every 100 mtrs whereever necessary as directed in the following strata manual means in hard soil,.As directed by the engineer incharge of the work.	cum	216.00			104.76	204.69	21443.79	104.76	21443.79
78	Providing and installing at site of work 63mm (0.662) pvc pipes of 6kg /cum 2 including cost of pipes and special labour including lowering into trenches laying true to line level and perfect linking at joints , leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth of not less than 15cms with gravel or selected earth available from the excation etc...As directed by the engineer incharge of the work.	Mtr	400.00			388.00	94.56	36689.26	388.00	36689.26
82	Providing and constructing burnt brick masonary with hoey comb work with approved quality of non modular bricks of standard size of class designation 5.00 Newton per sqmm(table moulded) with cement mortar for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications..As directed by the engineer incharge of the work.	Cum	17.44	14.12	102586.26	3.32	7266.65	24125.29	17.44	126711.55
83	Providing 12mm thick cement mortar plaster in single coat with cement plaster in single coat with cement mortar 1:3 to brick masonary including rounding off corners whereever required smooth rendering, providing and removing scaffolding,including cost of materials, labour, curing complete as per specifications..As directed by the engineer incharge of the work.	Sqm	41.12	32.73	6589.41		201.36		32.73	6589.41

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Item code	Item Name	Approved Qty	Previous measurements		Present measurements			Up to date measurements	
			Qty	Amount	Qty	Rate	Amount	Qty	Amount
85	Providing and filling in foundation with granite trap broken metal 100mm and down size , with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification. (work will be extracted seperately for broken metal and sand ie, layer by layer to act as a filter media)As directed by the engineer incharge of the work.	22.34			11.16	2351.76	26245.66	11.16	26245.66
				7222150.00			4912864.19		12135014.00

Civil work 4th & Part

Say 4912864.00

4912850/=

12135000/=

1 Certified that the contractor has completed the work as per the specification and drawing satisfactory.

2 The contractor has cleared the debris from the work spot.

3 The amount claimed in this bill is not claimed in any of previous bills

14/3/19

Environmental Engineer
Lakes, BBMP

14/3/19

Asst. Executive Engineer
Lakes, BBMP

TVWD upto 3rd & Part 13826280/=

4th & Part 4912850/=

upto 4th & Part 18739130/=

TEAM LEADER - BBMP
AMRUT - PDMC
IPE GLOBAL LTD.
BANGALORE - 560002.

1st & Part Civil work	7222150/=
2nd & Part Horticulture	4510330/=
3rd & Part Electrical	2093800/=
	13826280/=

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